

LC-XD1217PG/APG*

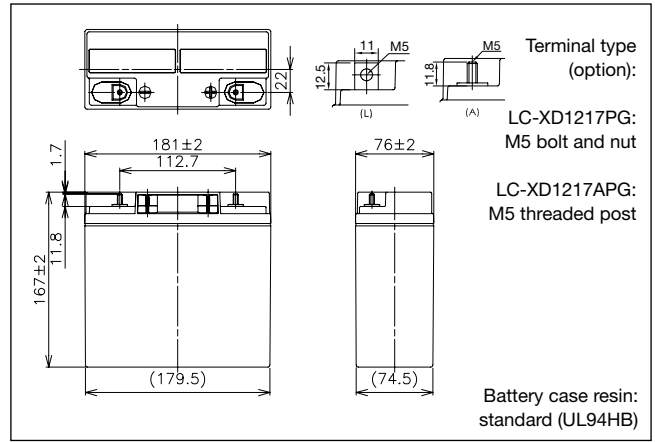
For standby power supplies. Expected trickle design life:
10 – 12 years at 20 °C according to Eurobat.

VdS

G104101



Dimensions (mm)



Specifications

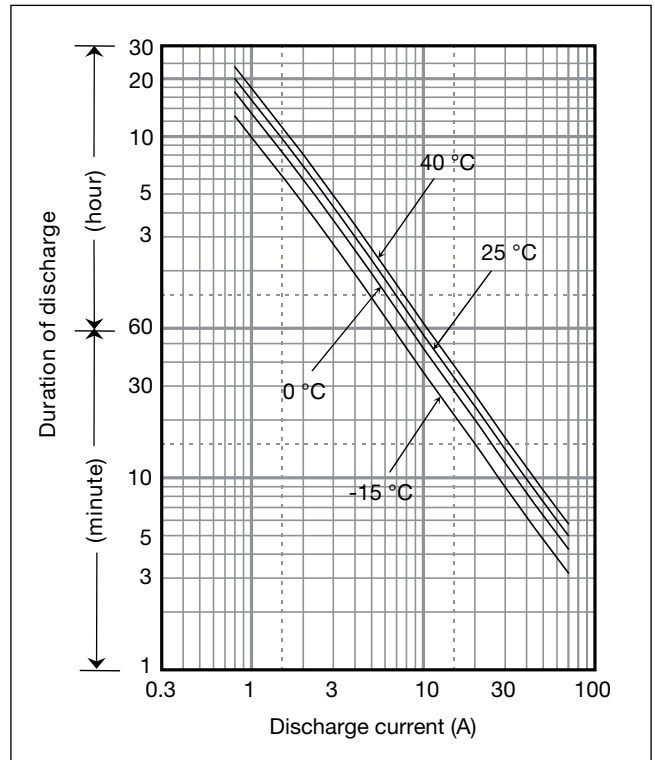
| | | |
|---------------------------------|---|--------|
| Nominal voltage | 12 V | |
| Nominal capacity (20 hour rate) | 17 Ah | |
| Dimensions | Length | 181 mm |
| | Width | 76 mm |
| | Height | 167 mm |
| | Total Height | 167 mm |
| Approx. mass | 6.5 kg | |
| Terminal | M5 Bolt and Nut type/ M5 threaded post | |

* This battery is also available with a flame retardant battery case resin (UL94V-0).

Characteristics

| | | |
|---|-------------------------------|-------|
| Capacity (25 °C) | 20 hour rate | 17 Ah |
| | 10 hour rate | 15 Ah |
| | 5 hour rate | 13 Ah |
| | 1 hour rate | 10 Ah |
| Internal resistance | Fully charged battery (25 °C) | 12 mΩ |
| Temperature dependency of capacity (20 hour rate) | 40 °C | 102 % |
| | 25 °C | 100 % |
| | 0 °C | 85 % |
| | -15 °C | 65 % |
| Self discharge (25 °C) | After 3 months | 91 % |
| | After 6 months | 82 % |
| | After 12 months | 64 % |

Duration of discharge vs Discharge current



Watt Table

(Wattage/Battery)

| Cut-off V | 3min | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h | 24h |
|-----------|------|------|-------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|
| 9.6V | 1021 | 806 | 526 | 402 | 337 | 251 | 177 | 142 | 97.6 | 75.5 | 56.2 | 43.2 | 35.6 | 28.6 | 19.0 | 10.3 | 8.58 |
| 9.9V | 948 | 756 | 516 | 399 | 331 | 249 | 176 | 142 | 95.6 | 74.9 | 55.9 | 42.9 | 35.4 | 28.5 | 18.9 | 10.3 | 8.56 |
| 10.2V | 874 | 708 | 502 | 391 | 326 | 246 | 175 | 139 | 93.7 | 73.0 | 55.4 | 42.6 | 35.1 | 28.3 | 18.7 | 10.2 | 8.53 |
| 10.5V | 777 | 634 | 465 | 364 | 309 | 240 | 172 | 136 | 91.7 | 70.4 | 54.5 | 42.3 | 34.8 | 28.0 | 18.6 | 10.2 | 8.50 |
| 10.8V | 656 | 561 | 415 | 339 | 301 | 232 | 169 | 134 | 89.2 | 67.1 | 53.4 | 41.8 | 33.9 | 27.5 | 18.4 | 10.1 | 8.44 |

Ampere Table

(Ampere/Battery)

| Cut-off V | 3min | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 10h | 20h | 24h |
|-----------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 9.6V | 91.8 | 72.2 | 47.0 | 34.9 | 29.0 | 21.5 | 15.1 | 12.0 | 8.26 | 6.37 | 4.72 | 3.61 | 2.97 | 2.39 | 1.58 | 0.86 | 0.72 |
| 9.9V | 85.2 | 67.8 | 46.0 | 34.7 | 28.6 | 21.2 | 15.0 | 12.0 | 8.10 | 6.33 | 4.70 | 3.59 | 2.95 | 2.38 | 1.57 | 0.85 | 0.71 |
| 10.2V | 78.6 | 63.5 | 44.9 | 34.0 | 28.1 | 21.0 | 14.9 | 11.8 | 7.93 | 6.16 | 4.65 | 3.57 | 2.93 | 2.36 | 1.56 | 0.85 | 0.71 |
| 10.5V | 69.9 | 56.9 | 41.6 | 31.6 | 26.7 | 20.5 | 14.6 | 11.6 | 7.77 | 5.95 | 4.58 | 3.54 | 2.90 | 2.33 | 1.55 | 0.85 | 0.71 |
| 10.8V | 59.0 | 50.3 | 37.1 | 29.5 | 26.0 | 19.8 | 14.4 | 11.3 | 7.56 | 5.67 | 4.49 | 3.49 | 2.83 | 2.29 | 1.53 | 0.85 | 0.70 |

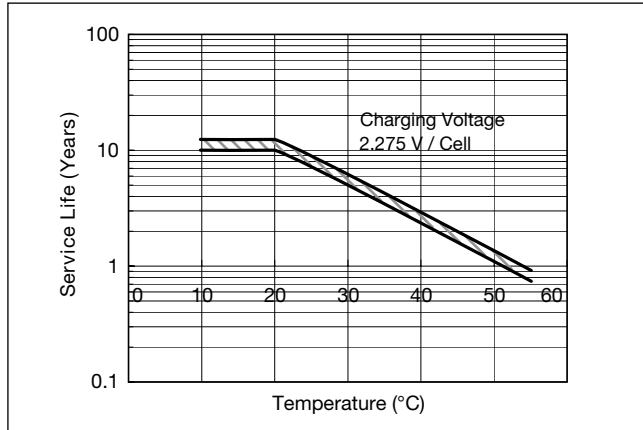
Charging Method

| | |
|-------------|---|
| Trickle use | Control voltage: 13.6 - 13.8 V; Initial current: 2.55 A or smaller |
|-------------|---|

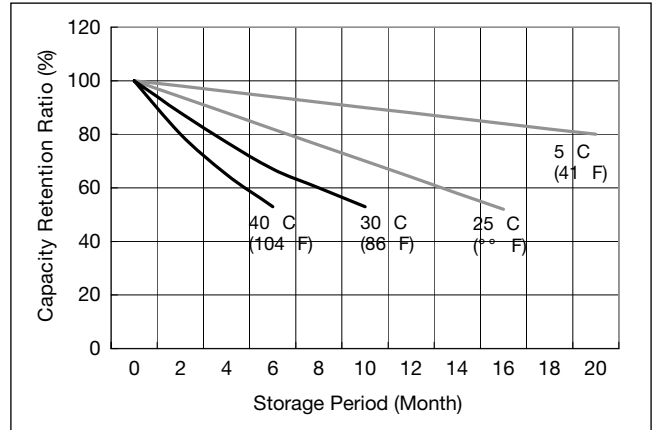
Cut off voltage

| | | | | | |
|---------------------|----------------|---------------|--------------|-------------|-------------|
| Discharge current | 0.85 A - 3.4 A | 3.4 A - 8.5 A | 8.5 A - 17 A | 17 A - 34 A | 34 A - 51 A |
| Cut off voltage (V) | 10.5 | 10.2 | 9.9 | 9.3 | 8.7 |

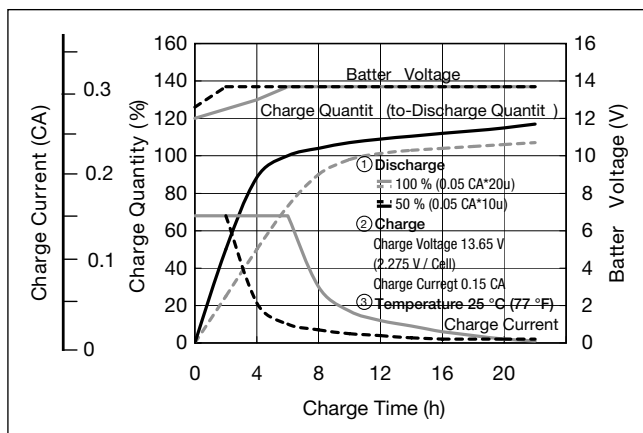
Influence of Temperature on Trickle life



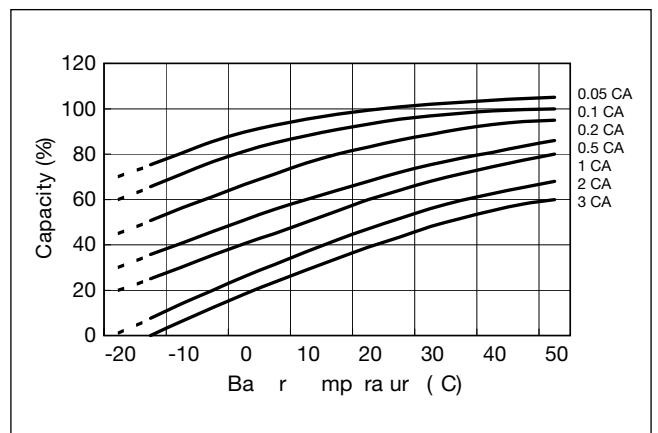
Residual capacity vs storage period



Constant-voltage and constant-current charge characteristics for Trickle use



Discharge capacity by temperature and by discharge current



Discharge characteristics

